



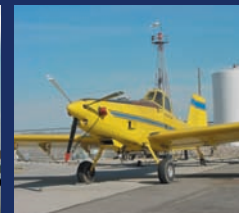
NORTH DAKOTA *Aviation System Plan*

SUMMARY FOR 2005-2009

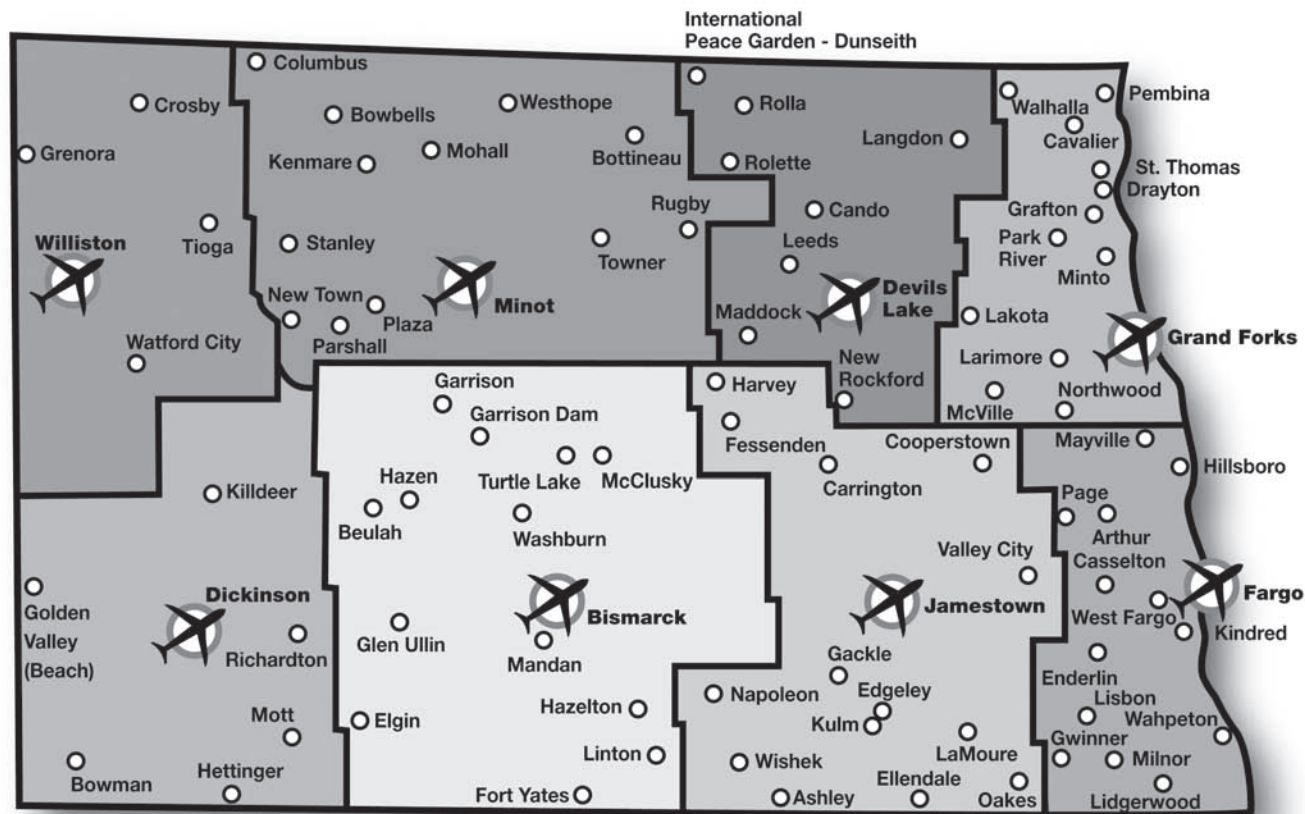


Prepared by:
**North Dakota
Aeronautics Commission**
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EXECUTIVE REPORT



90 TOTAL AIRPORTS =

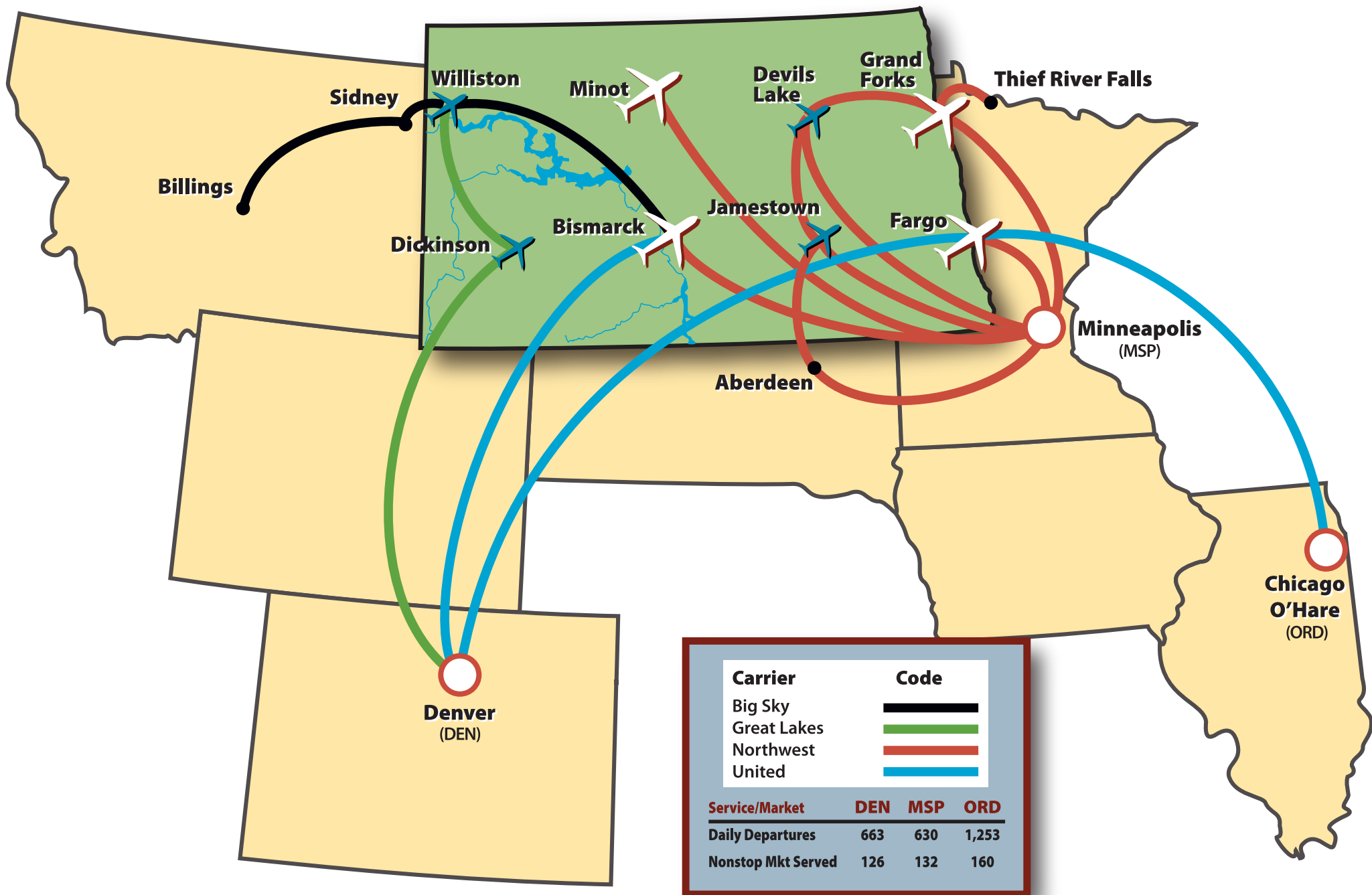


Air Carrier Service Airport (8)

○ General Aviation Facility (82)

PUBLIC AIRPORTS IN NORTH DAKOTA

Air Service in North Dakota



A photograph of a Northwest Airlines jet on a runway at sunset. The sun is low on the horizon, creating a bright glow and long shadows. The jet is dark with "NORTHWEST" written on its side. The runway is visible in the foreground, and the sky is a mix of orange and blue.

Public Airports	1,300	1,187	1,278	1,395	1,351	1,416	2,904	2,502	2,270	2,416	1,989	2,142	1,012	780	833	900	673	705	57	20	24	64	41	34	\$153,088	\$5,940	\$5,980	
Airports	1,665	1,926	1,790	1,778	1,596	1,623	4,095	3,764	3,208	3,050	2,422	2,580	1,300	1,040	1,060	1,100	800	810	Number of Projects									
																				Total Demand \$165 Million								
																				FAA State Local								

Airport Service Areas



A



Most of the State's citizens live within a commercial airport service area as shown above on Chart A. Citizens who live outside the cities served by an airline benefit from scheduled service and air cargo activities. Citizens in outlying communities can access air service using the state's highway or transit system.

Each public airport facility has a service area extending beyond the community and in some locations into Canada or surrounding states. Communities are aware of the airport competition for passengers in their service area and provide marketing initiatives to fly from a North Dakota airport. Erosion or leakage may occur to non-ND airports, however "fly local" promotion is important to sustaining or improving existing airline service.

Airport Design Classification



AIR CARRIER

GENERAL AVIATION

PRIMARY NON-HUB	Runway Length	COMMERCIAL REGIONAL	Runway Length	CATEGORY 1	CATEGORY 2	CATEGORY 3	CATEGORY 4	CATEGORY 5
*Bismarck * Fargo * Grand Forks * Minot (4)	8794' 9000' 7349' 7700'	*Devils Lake * Dickinson * Jamestown * Williston (4)	5509' 6400' 6500' 6650'	A&B II 12,500 lbs> 60%	A&B II 12,500 lbs< 100%	A&B I 12,500 lbs< 95%	A&B I 12,500 lbs< 75% TO 50%	TURF LANDING STRIP
Classifications Air Carrier - Primary Non-Hub Provides scheduled passenger and cargo services by jet transport aircraft and qualifies for federal airport entitlement funding and passenger facility charges. Air Carrier - Commercial Regional Provides scheduled and cargo passenger regional services by commuter aircraft, qualifying for state apportioned federal funds and essential air service candidates. General Aviation - Category 1 & 2 Provides access to North Dakota markets and population centers which requires significant service by business jets, twin-engine piston, or turbo aircraft. General Aviation - Category 3 Provides access to North Dakota markets and population centers which requires service by limited numbers of business jets and single or light twin-engine aircraft. General Aviation - Category 4 & 5 Provides access to North Dakota communities supporting low aircraft activity levels due to runway length restrictions and turf landing surfaces with single or light twin aircraft.		Note: Classification based on FAA airport design groups and runway lengths. 90 Public Airports 72 Paved Airports 80 Lighted Airports		*Gwinner *Hazen *Wahpeton	Ashley *Bowman *Carrington *Casselton *Grafton *Hettinger *Mandan *Pembina *Rolla *Tioga *Valley City *Watford City	*Beach Beulah *Bottineau *Cando *Cavalier *Cooperstown *Crosby *Edgeley *Ellendale *Ft. Yates *Garrison *Glen Ullin *Harvey *Hillsboro *Kenmare Killdeer *Kindred *Lakota *LaMoure *Langdon *Linton Mayville New Rockford *Northwood *Oakes *Park River Rolette *Rugby *Stanley *Walhalla *Washburn West Fargo	Drayton *Dunseith-IPG Enderlin Larimore Leeds *Lisbon Minto *Mohall *Mott Napoleon New Town Page *Parshall St. Thomas Westhope Wishek	Arthur Bowbells Columbus Elgin Fessenden Gackle Grenora Hazelton Kulm Lidgerwood Maddock McClusky McVille Milnor Plaza Richardton Riverdale Towner Turtle Lake

Airplane Design Group (ADG) Wingspan
I. Wingspan up to but less than 49 ft.
II. Wingspan 49 ft. up to but less than 79 ft.

Aircraft Approach Category
A. Speed less than 91 knots
B. Speed 91 knots up to but less than 121

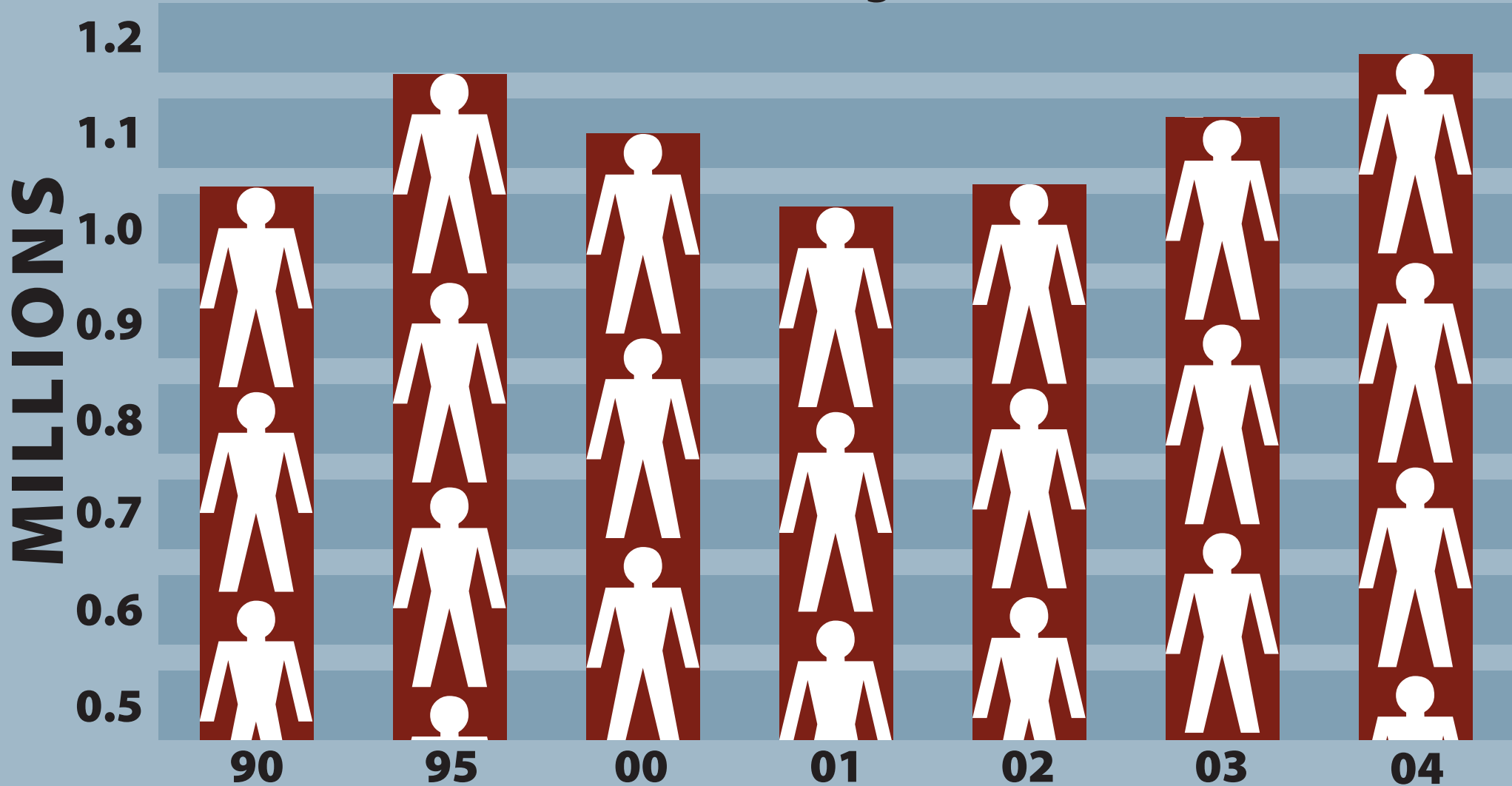
***54 Federal Aid Eligible Airports**

(3) (12) (32) (16) (19)

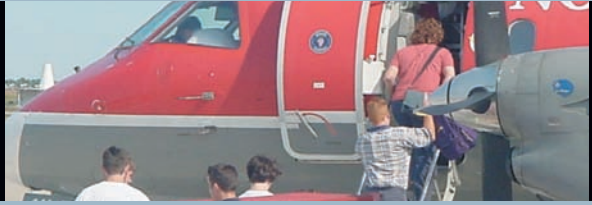
Airline History



Statewide Passengers (On & Off)



Airline Boardings

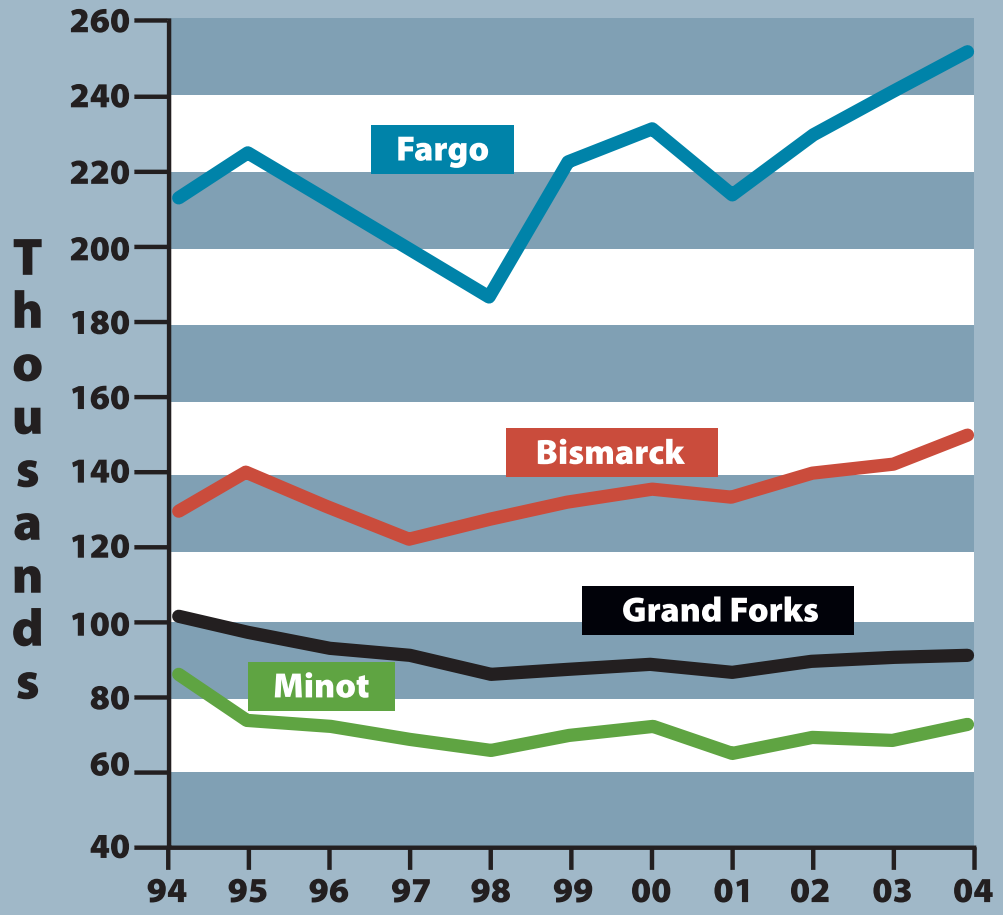


D



MAJOR

Annual Trend by Airport



REGIONAL

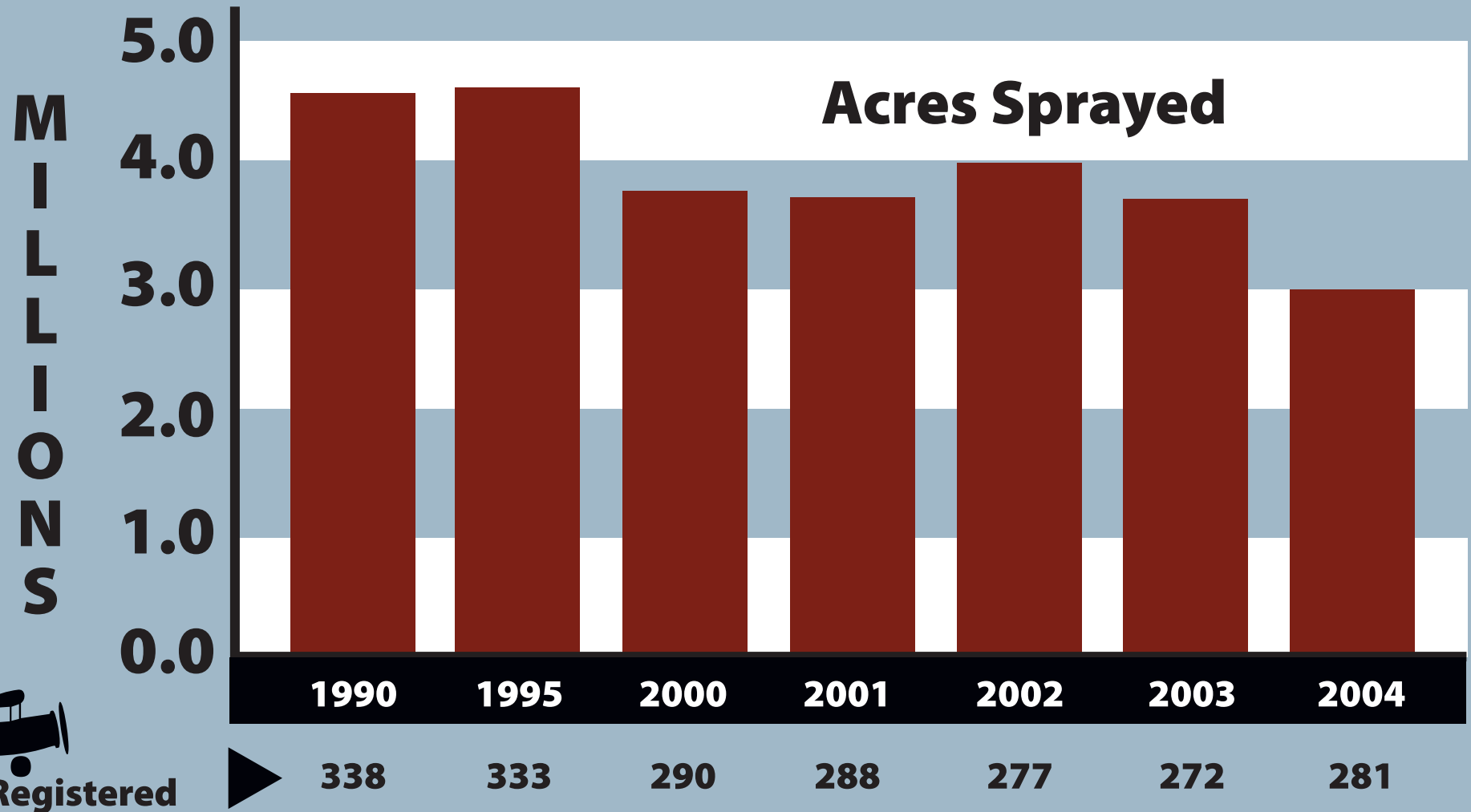
Annual Trend by Airport



Aerial Acres Sprayed



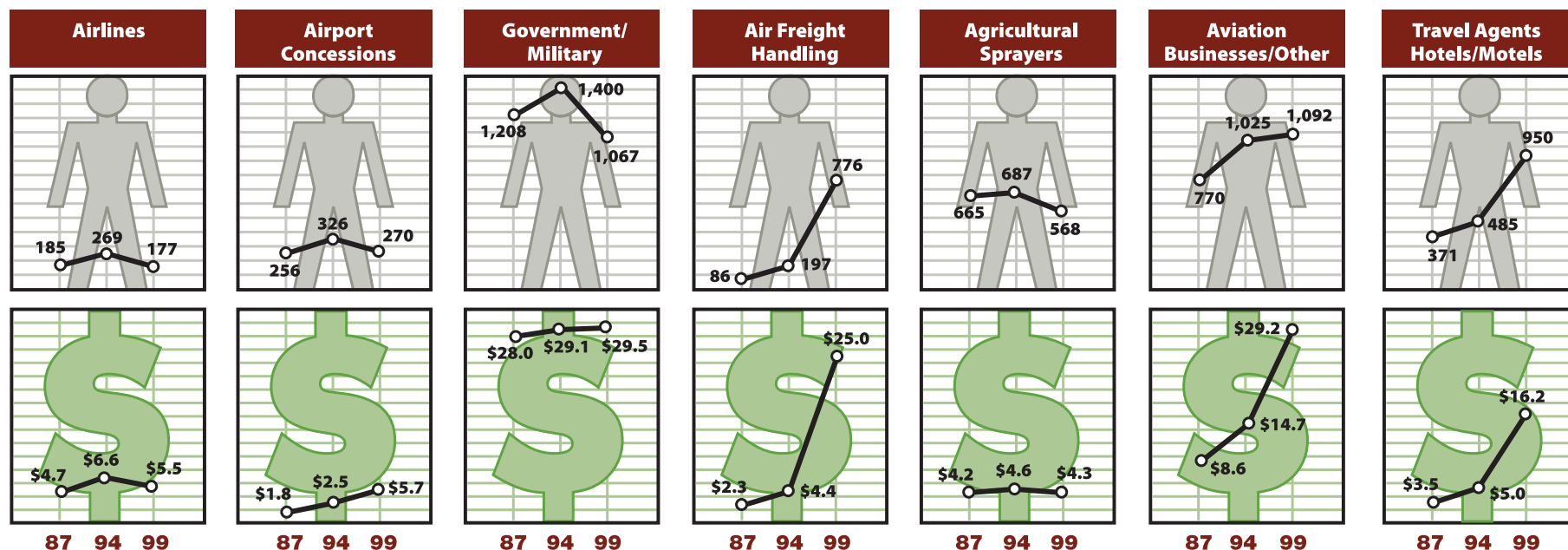
E



Aviation-Related Jobs and Payroll in North Dakota 1987-94-99

1999
Direct
Jobs:
4900

1999
Direct
Payroll:
\$115.3
Million



Aviation – Makes Dollars & \$ense



The expenditure and jobs generated by aviation-related groups in North Dakota provide a definite boost to the state's economy. As quantified in the 1999 Economic Impact Study, some \$115.3 million dollars in total direct payroll were added to the state's economy because of aviation; in addition, 4900 direct jobs were created as a result of aviation activities. In 2005, the aviation impacts will be updated to better monitor trends and funding directions.

Hundreds of businesses use aviation as a tool for conducting everyday business, thereby further stimulating the North Dakota economy. In addition, vital health and police services are administered directly through aviation. Some examples of business flights include:

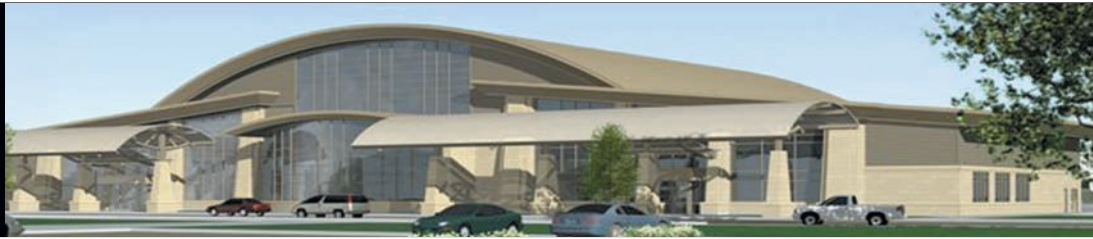
- ✈ Flying doctors and nurses to rural satellite clinics
- ✈ Air emergency ambulance and helicopter intercepts
- ✈ Contractors and engineers using aircraft for construction
- ✈ Aerial spraying for crop protection
- ✈ Aerial photography and surveying
- ✈ Air freight of parts to mines, oil fields and farm businesses
- ✈ Powerline and pipeline safety patrol

Air cargo of fresh seafood/flowers and hunting dogs

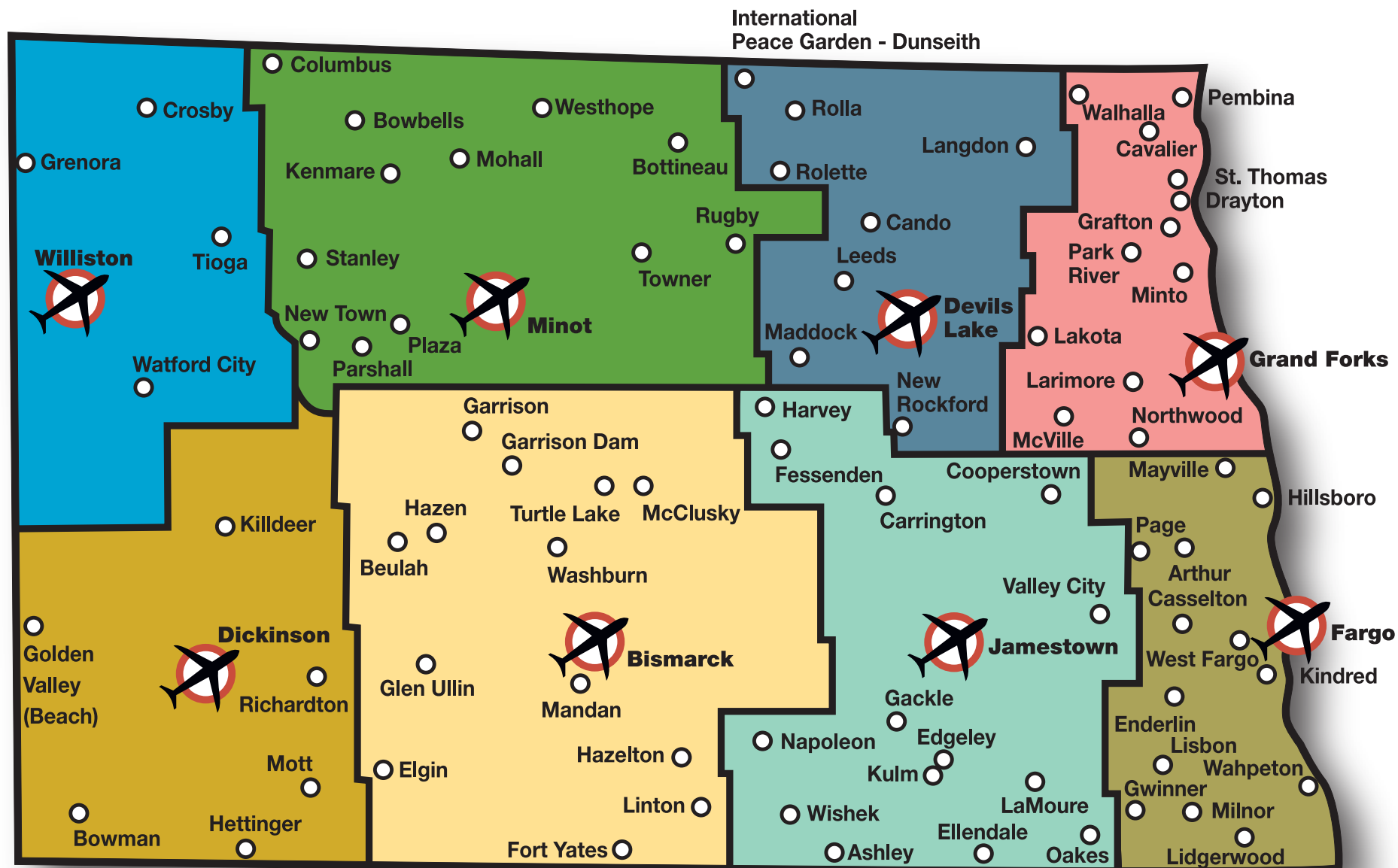
- ✈ Aerospace flight and career training at University of North Dakota
- ✈ Rain enhancement and hail suppression by aircraft cloud seeding
- ✈ Film development, bank check clearance, delivery of computer forms
- ✈ Wildlife control and police patrol during inclement weather
- ✈ Numerous other activities affecting everyday life in North Dakota

Another major finding of the survey was that the availability of airport facilities is a major criteria for businesses seeking locations for their operations. Proximity to a commercial service airport was ranked third among 10 factors deemed important in site selection. Proximity to a general aviation airport was ranked fifth.

Public Airports in North Dakota



G



90 TOTAL AIRPORTS =



Air Carrier Service Airport (8)

○ General Aviation Facility (82)

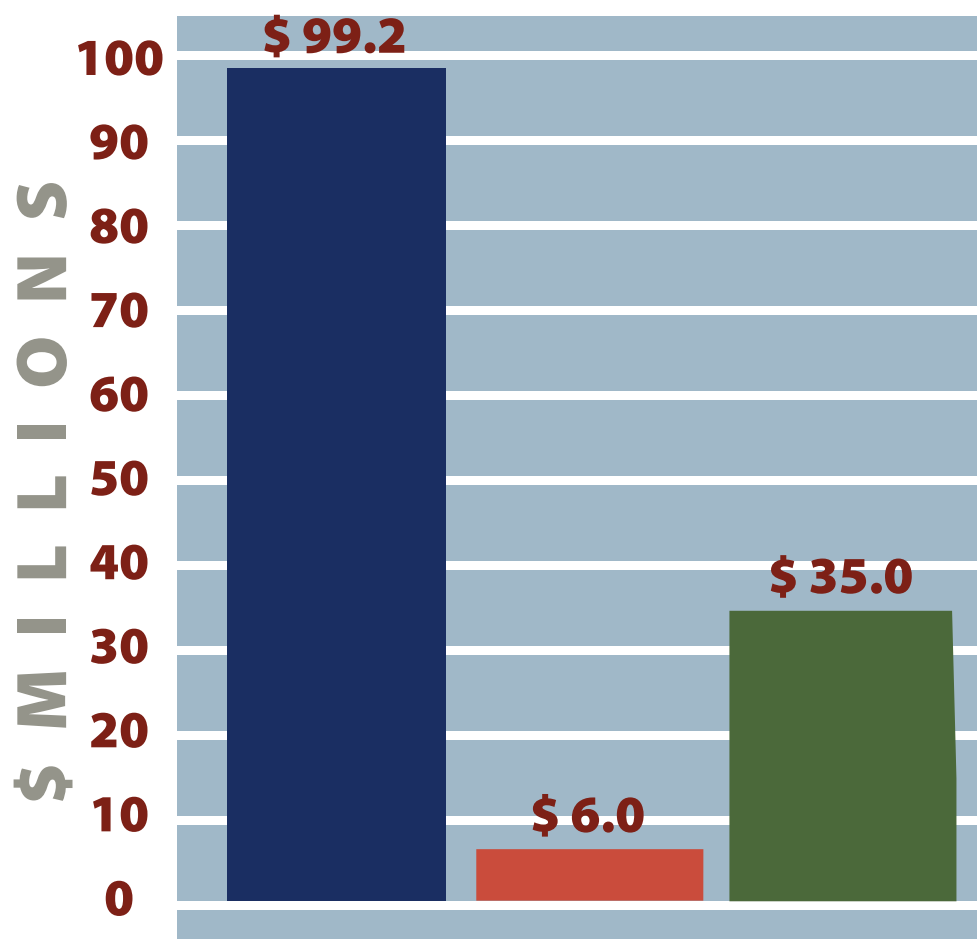
Airport Funding



H

Airport Construction History

2000-2004 Five Year Total = \$140.2 million



FAA **State** **Local**
71% **4%** **25%**

FAA

2000 - \$11.0

2001 - \$18.4

2002 - \$23.0

2003 - \$20.0

2004 - \$26.8

\$ MILLIONS

** Local Revenues Based on Airport Mill Levies, Rentals, Passenger Facility Charges, etc.*